BRUHAT BANGALORE MAHANAGARA PALIKE

Office of the Executive Engineer, Hebbal Division, JC Nagar Main road, Bangalore-06.

REGARDING QUALITY CONTROL - CERTIFICATE

On verification of quality control test reports available in the file and also from inspection report of Technical Team Deployed for this purpose generally the work executed is satisfactory. Compliance of quality control test report as per MORT&H at this stage is not – feasible since this work was executed 2 (Two) (as case may be) years back.

Name: of work: Construction of drain in HIG Colony 1st A Cross in Ward No.18

Assistant Engineer
Ward No.18

Assistant Executive Engineer
Hebbal Sub-Division,
BBMP.

Executive Engineer
Hebbal Division,
BBMP

28/10/15

28/10/15

BR-597 / 31-1-14

KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.
Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/C.AGG/2481-4247/2013-2014 **Date: 12.02.2014**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Hebbal Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Drain in HEG Colony 1st A Cross in Ward No.18.

Name of Contractor* : Mr. Murali Mohan, Bangalore.

Source of Sample : Supplied by the Contractor.

Sample Received on : 08.02.2014.

Technical Reference : IS: 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single Size for IS: Stipulation of 40mm size Aggregate
2	40	87.5	85 to 100	95 to 100	
3	20	9.1	0 to 20	30 to 70	
4	12.5	-	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	15.60	Not specified
2	Elongation Index (%)	40	18.08	Not specified
3	Impact Value (%)	40	23.05	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

AE-18

Asst Executive Engineer
Hebbal Sub-Division
Queens Road,
Bangalore Mahanagara Palike
Bangalore - 52.

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2) The results listed refer only to the tested samples and applicable parameters.

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MATERIAL TESTING LABORATORY

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Report No. : KTH/F.AGG/2481-4248/2013-2014 **Date: 12.02.2014**

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Hebbal Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Drain in HEG Colony 1st A Cross in Ward No.18.

Name of Contractor* : Mr. Murali Mohan, Bangalore.

Source of Sample : Supplied by the Contractor.

Sample Received on : 08.02.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate (River Sand)

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100.0	100	100	100	100	Falls in Zone –I as per table 4 of IS-383 – 1970.
2	4.75	90.3	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	79.6	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	45.7	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	24.8	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	7.1	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	0.3	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Materials finer than 75 microns (%) (Deleterious Material)	2.1	Shall not be more than 3.0 %
2.	Fineness Modulus	3.4	Min - 2.0 Max - 3.5

* As furnished by the Customer

For KARNATAKA TEST HOUSE PVT. LTD.

(SREENIVASA.C)
TECHNICAL MANAGER

AE-B
Asst. Executive Engineer
Hebbal Sub-Division
Queens Road.
Bangalore Mahanagara Palike
Bangalore

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KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

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Yeshwanthpur, Bangalore - 560 054.
Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/ CEMENT /2481-4249/2013-2014 **Date: 17.02.2014**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Hebbal Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Drain in HEG Colony 1st A Cross in Ward No.18.

Name of Contractor* : Mr. Murali Mohan, Bangalore.

Source of Sample : Supplied by the Customer.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Birla Super 53 Grade.

Sample Received on : 08.02.2014.

Period of Test : 09.02.2014 to 16.02.2014.

Technical Reference : IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	27.0 %	Not specified	-
2	Initial setting time	166 minutes	Shall not be less than 30 minutes	P
3	Final setting time	259 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 29.44 MPa 39.18 MPa T.T.C	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	301.25 m^2/kg	Shall not be less than 225 m^2/kg	P
6	Soundness (Le-chatlier's method)	0.50 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.

*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

AE-12
Asst. Executive Engineer
Hebbal Sub-Division
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